

AMENDMENTS TO THE SPECIFICATION:

Please amend the specification as follows:

Page 27, third paragraph,

As for the arm angle θ_1 , by taking the angle of the impact direction D as 0 degrees, and the counter clockwise direction from the impact direction D in the figure as positive, the arm angle θ_1 is obtained to show a position of the grip portion 14 from the ~~tree~~ three dimensional coordinates (x, y, z) and the center position of the swing path arc B, as shown in Fig. 6A (step 105) . In addition, at the top state the arm angle θ_1 is near a range of 90 to 135 degrees, and at the impact state, it has a range slightly exceeding 270 degrees.

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